DELAWARE

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STATE DEMOGRAPHICS

Population: 700,000
Size: 2,397
Proportion rural: 27.0%
Population per sq. mile: 358.2
Median household income: $35,739
Percent below poverty: 7.6%
Percent on public assistance: 5.2%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 427,437
Number of LECs: 1
BOC: Bell Atlantic
Market share of BOC: 100.0%
Penetration Rate: 95.8%
LEC competition permitted: no regulatory barrier

OPASTCO STUDY

Subscribers per sq. mile:
Difference in non-BOC loop costs:
Monthly revenues per customer:
Revenues if supports eliminated:
Percent who would disconnect:

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   **Hybrid Fiber:** No
Fiber : Yes   **Microwave:** No
Percent local loop digital: 100%
Other Technology: ISDN

ADVANCED TELECOMMUNICATIONS

Cable households: 77.0%
Cable in schools: 69.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $9.40
LEC residential rates: $9.40 (one LEC)

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) actively involved in rule making process
Targeted Groups: Rural/high cost, Low income/economically disadvantaged
Definition of basic service: Rotary, 911, directory assistance, white pages, basic dial tone, switching access, relay access

STATE UNIVERSAL SERVICE FUND: No

Fund Administrator:
Contributors:
Basis for contribution:
Types of subsidies:
Who draws from fund:
Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: No   Link Up: No   High Cost: No

PENDING ACTIONS: The DPSC has pending rules that should be implemented by mid-summer 1996. The rules have been pending since 1993. The rules will apply to new service providers. The PSC's objective is to make sure no group is worse off than they are now. They don't have a USF because the statute says rates should be non-discriminatory. They would have to change the law to set up a USF. The state is very conservative. Eventually, they won't be able to avoid setting up a fund, if they have to establish a carrier of last resort. The carrier of last resort could collect from a USF if it could demonstrate the need and others would have to pay into the fund. They have price cap regulations and three pending filing applications. Some in state think ISDN should be part of universal service.

COMMENTS:

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services:

Programs to access advanced information services: They are upgrading their network now, and improving infrastructure into all schools and libraries. The Office of Telecommunications Management is deploying routers in all elementary schools throughout the state to support placing computers in every classroom. They also expect to have ISDN in all schools by Spring 1996. Some in the state talk about information as a public good.

Programs for electronic access to public/government records: Not currently

Public/private partnerships:

1995 NTIA/TIIAP GRANTS

University of Delaware - Center for Applied Science & Engineering program will increase access to all types of educational opportunities for students with disabilities by using the Delaware Assistive Technology Information Network. DATIN will increase the skill level and connectivity of school district personnel, students with disabilities, and their families (Total $447K, Federal $223K).

DISTRICT OF COLUMBIA

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STATE DEMOGRAPHICS

Population: 578,000
Size: 68
Proportion rural: 0.0%
Population per sq. mile: 9,482.8
Median household income: $30,357
Percent below poverty: 20.3%
Percent on public assistance: 13.3%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 779,786
Number of LECs: 1
BOC: Bell Atlantic DC
Market share of BOC: 100.0%
Penetration Rate: 88.9%
LEC competition permitted: statutory barrier

OPASTCO STUDY

Subscribers per sq. mile:
Difference in non-BOC loop costs:
Monthly revenues per customer:
Revenues if supports eliminated:
Percent who would disconnect:

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   **Hybrid Fiber:** No
Fiber : Yes   **Microwave:** No
Percent local loop digital: 100%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 47.0%
Cable in schools: 65.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $3.00-$14.60
LEC residential rates: $3.00-$14.60

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) actively involved in rule making process
Targeted Groups: Low income/economically disadvantaged, potential disconnects from long distance
Definition of basic service: None

STATE UNIVERSAL SERVICE FUND: No

Fund Administrator:
Contributors:
Basis for contribution:
Types of subsidies:
Who draws from fund:
Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes   Link Up: Yes   High Cost: No

PENDING ACTIONS: DC is unique because they only have one LEC. While the LEC has an economy service rate for low income of $3.00, there has been a significant decline in the penetration rate. To address this issue, the PSC is looking at US as part of a new rate case. They will be developing a definition of basic service as part of the rate case, and identifying what, if any, additional groups should be targeted for US - schools, health care, etc. There is legislation in front of the DC council currently to allow local competition. If this occurs they may need to set up a USF. Bell Atlantic has promised to keep residential rates frozen until 2000 in the new rate case.

COMMENTS: The PSC has taken significant action regarding the penetration rate to make sure US is available and is investigating what else should be done.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services:

Programs to access advanced information services: Providing ISDN at a reasonable rate for schools is an issue in Bell's rate case.

Programs for electronic access to public/government records: There is no formal mandate to do this but some agencies are developing ways to provide public access. There is a lot of interest in making government more accessible to the public.

Public/private partnership: Bell's rate case is looking at this. AT&T recently launched a volunteer partnership initiative to improve two of the city's special education schools with new computers for computer laboratories, building repairs and administrative process improvements, donating equipment and services valued at more than $100K.

1995 NTIA/TIIAP GRANTS

Association of Occupational and Environmental Clinics. This project will allow health care providers to tap into the expertise of specialists in the field of occupational and environmental medicine. Health care providers will be able to send questions about patients' illnesses to an Internet mailing list and receive evaluations from the expert participants (Total $44K, Federal $21K).

Soundprint Media Center, Inc. The Global Public Telecommunications Network (GPTN) is a laboratory of community network services that will provide low-cost public access to on-line information resources, including audio archival materials, radio programs, textual materials associated with the archival resources, and, ultimately, a similar array of video resources (Total $1,700K, Federal $850K).

United Cerebral Palsy Association Community Services Division. This project is designed to connect individuals with disabilities and their families to the National Information Infrastructure. Disabled individuals will also be given the on-line addresses of groups that share the same challenges and situations. (Total $597K, Federal $225K)

FLORIDA

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STATE DEMOGRAPHICS

Population: 13,679,000
Size: 59,988
Proportion rural: 52.0%
Population per sq. mile: 253.3
Median household income: $27,456
Percent below poverty: 15.3%
Percent on public assistance: 6.8%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 8,025,917
Number of LECs: 13
BOC: Bell South
Market share of BOC: 61.4%
Penetration Rate: 92.6%
LEC competition permitted: 7/95

OPASTCO STUDY

Subscribers per sq. mile: 13
Difference in non-BOC loop costs: -6.9%
Monthly revenues per customer: $16.77
Revenues if supports eliminated: $30.32
Percent who would disconnect: 27.10%

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   **Hybrid Fiber:** No
Fiber : Yes   **Microwave:** No
Percent local loop digital: 35.43%
Other Technology: 95% digital switches

ADVANCED TELECOMMUNICATIONS

Cable households: 71.0%
Cable in schools: 65.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $10.65
LEC residential rates: $6.00 to $11.63

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) in initial stage of rule making process
Targeted Groups: None
Definition of basic service: Touch tone, voice grade, 911, directory assistance, operator assistance, long distance, flat rate residential

STATE UNIVERSAL SERVICE FUND: No

Fund Administrator:
Contributors:
Basis for contribution:
Types of subsidies:
Who draws from fund:
Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: The FPSC just completed evidentiary policy making proceedings on an interim US mechanism. Revised Chapter 364, Florida Statutes, mandates an interim US mechanism be in place by 1/1/96. The Commission is to deliver a report to the Legislature and Governor on the need for and possible structure of a permanent mechanism by 1/1/97. The Legislature then has until 1/1/2000 to mandate a permanent mechanism. They are considering what US means (US is not equal to basic service, but US may be more than basic service). They are not sure if a USF will be the mechanism used to protect certain groups. What US is trying to protect is being considered in the current docket. They are not likely to have a broad subsidy. The availability of service is not a problem in Florida, but price is more an issue. The new statue allows LECs to enter the market. Residential rates may be capped for 3-5 years. Some local LECs are trying to do rate rebalancing

COMMENTS: The FPSC receives relatively few complaints involving local exchange companies and almost no complaints on phone service, so quality of service is not an issue. If people want telephone service, they'll get it. They already has low local rates so rates are not a big issue in Florida.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: They don't regulate cable, but they have some cable companies applying for telecommunication service. Cable will be involved in phone service in future. Cable companies may do pretty well in the future since they have a high penetration rate.

Programs to access advanced information services: They expect that competition will take care of expanding access to advanced services. The Department of Management Services offers state and local government and certain other qualifying organizations low cost access to the Internet. Florida has a very active community network alliance and seven regional Free-Nets are currently in operation.

Programs for electronic access to public/government records: State Bills are currently available and one can find out just about anything on the State's web page. The Florida Communities Network helps state and local governments in sharing information and acts to foster economic development by enhancing the telecommunications infrastructure and access to public information, and to improve government efficiency with a more efficient flow of information between agencies. The Information Resource Management Advisory Council (IRMAC) has a Public Access User Advisory Group working on policy development.

Public/private partnerships: Public/private partnerships are illegal in Florida.

1995 NTIA/TIIAP GRANTS

Southeast Florida Library Information Network, SEFLIN will cultivate a network of users-as-guides, helping disadvantaged citizens of the three-county area make full use of this resource. More that 120 corporations, all of the public and several private high schools, libraries, and all local colleges and universities will be able to access this time-sensitive information immediately (Total $509K, Federal $225K)

GEORGIA

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STATE DEMOGRAPHICS

Population: 6,917,000
Size: 58,977
Proportion rural: 36.8%
Population per sq. mile: 119.4
Median household income: $28,889
Percent below poverty: 17.8%
Percent on public assistance: 8.5%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 3,661,660
Number of LECs: 36
BOC: Bell South
Market share of BOC: 83.8%
Penetration Rate: 93.2%
LEC competition permitted: 7/95

OPASTCO STUDY

Subscribers per sq. mile: 13.9
Difference in non-BOC loop costs: 30.5%
Monthly revenues per customer: $18.12
Revenues if supports eliminated: $32.09
Percent who would disconnect: 27.10%

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   Hybrid Fiber: No
Fiber : Yes   Microwave: Yes
Percent local loop digital: 27.79%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 63.0%
Cable in schools: 66.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $14.33
LEC residential rates: $4.00 to $18.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) actively involved in rule making process
Targeted Groups: None
Definition of basic service: single party, touch tone, 911, modem grade (9600), 1+ dialing

STATE UNIVERSAL SERVICE FUND: No

Fund Administrator:
Contributors:
Basis for contribution:
Types of subsidies:
Who draws from fund:
Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: The GPSC is in process of developing rules for a USF. All telecommunication providers will contribute to fund and this may include wireless and cable if provide basic service (voice not video/TV). They will specify a percent of revenues in rules and who will administrator fund. A rate subsidy of so much per line will go to providers of US. One cable company has applied for certification. and they will provide phone service over cable network. They currently have one pending rate case.

COMMENTS: Georgia is in the process of developing a new system to accommodate competition so citizens do have universal service. They currently have 92% coverage. Basic service includes single line business.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: One cable company is applying to be a carrier. US West is becoming the first BOC to compete in another BOC's territory, having recently received authority from the Georgia PSC to provide local telephone service over its MediaOne cable systems.

Programs to access advanced information services: This is not now a part of US. AIS would have to be more widely used before this becomes an issue.

Programs for electronic access to public/government records: Yes, but it is not centralized. GeorgiaNet has a number of state agencies that are accessible. They do have campaign funds reporting on the Internet, and more agencies are bringing up a Web presence.

Public/private partnerships: Georgia Distance Learning & Telemedicine Act of 1992 (SB 144) authorizes and directs DOAS to develop a statewide distance learning & telemedicine network. It creates a procedure for funding of new distance learning and telemedicine systems and provides an initial fund source and creates a governing board. The resultant Georgia Statewide Academic and Medical System (GSAMS) currently has 227 installed distance learning sites and 60 telemedicine sites making it the largest videoconferencing system in the world.

The Georgia Center for Advanced Telecommunications Technology (GCATT) is a division of the Georgia Research Alliance (GRA). Their recently completed 150,000 square foot facility was funded by $24M in state allocations and $5M in private matching funds. It will provide a meeting ground where academia, business leaders, government representatives, and researchers can collaborate on emerging technologies and will house technology demonstrations during the 1996 Centennial Olympic Games showcasing Georgia's achievements in advanced telecommunications.

Bell South must make infrastructure investments of $500 million per year for five years for infrastructure improvement which include distance learning and telemedicine.

1995 NTIA/TIIAP GRANTS

Southeastern Library Network will address the general problem of integrating such distributed data by demonstrating that existing standards for electronic records, network protocols and software tools can be used to develop a model regional information system. It will produce a decentralized on-line system for the Southeast region of the nation (Total $852K, Federal $419K).

HAWAII

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STATE DEMOGRAPHICS

Population: 1,172,000
Size: 6,459
Proportion rural: 11.0%
Population per sq. mile: 182.4
Median household income: $42,171
Percent below poverty: 11.0%
Percent on public assistance: 5.9%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 595,817
Number of LECs: 1
BOC: na
Market share of BOC: 0.0%
Penetration Rate: 94.5%
LEC competition permitted: 6/95

OPASTCO STUDY

Subscribers per sq. mile:
Difference in non-BOC loop costs:
Monthly revenues per customer:
Revenues if supports eliminated:
Percent who would disconnect:

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   Hybrid Fiber: No
Fiber : Yes   Microwave: Yes
Percent local loop digital: 72.23%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 84.0%
Cable in schools: 82.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $14.40
LEC residential rates: $14.40 (one LEC)

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) actively involved in rule making process
Targeted groups: Rural/high cost, Economically disadvantaged/low income, Users with disability
Definition of basic service: None (see pending)

STATE UNIVERSAL SERVICE FUND: No (see pending)

Fund Administrator:
Contributors:
Basis for contribution:
Types of subsidies:
Who draws from fund:
Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: No

PENDING ACTIONS: The HPUC has opened a docket and issued draft rules on competition and US. The definition of basic service in the draft rules includes single party, touch tone, voice grade, 911, directory assistance, operator, white pages, and relay service. The draft rules include a USF, and both high cost and low income groups are targeted. For low income groups the subsidy would be 50% of the basic rate. The law allows for direct distribution of the subsidy to customers based on need. All telecommunication providers would contribute to the USF including LECs, BOC, wireless and cable. "Telecommunication provider" is broadly defined in law. Non-telecommunication providers may have to contribute to the fund if they directly benefit from the telecommunication infrastructure and directly compete with telecommunication providers. In high cost program, the subsidy would go to carrier if the difference in cost is greater than 120% of basic rate. The program would be administered by the Commission.

COMMENTS:

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: Telecommunication service excludes cable TV, but telecommunication carrier could include cable provider if they provide local service. One cable company, Oceanic, has applied for local service.

Programs to access advanced information services: As part of draft rules they will review definitions of basic service from time to time. The Commission is actively involved in updating the network. Hawaii has pioneered the provision of government and other information of interest in electronically accessible and online forms with their Hawaii FYI established in 1991. Due to a current fiscal crisis, Hawaii Inc. was not funded as of June 30, 1995, but the State Dept. of Budget and Finance continues to operate the popular service, Hawaii FYI, with its links to Hawaii related businesses, education, government, non-profit organizations, and visitor industry information systems. The High Technology Development Corporation (HTDC) is and agency of the state's Dept. of Business, Economic Development and Tourism (DBEDT), who not only facilitates the development and growth of commercial high technology industry in Hawaii, but assists various state and local agencies in getting up on the Internet.

Programs for electronic access to public/government records: This is not under the HPUC's jurisdiction. Contact Office of Information Practices (808) 586-1400.

Public/private partnerships: See Hawaii Inc. above.

1995 NTIA/TIIAP GRANTS

State of Hawaii - Dept. of the Attorney General. The Juvenile Justice Information System (JJIS), using leased telephone lines and computer equipment, enables law enforcement officials throughout the islands to share important information about juvenile offenders (Total $714K, Federal $222K)

State of Hawaii - Dept. of Business, Economic Development. HI-TIME will provide the state government with public principles, strategic objectives, and a plan of recommended actions to guide decision making on telecommunications and information technology infrastructure (Total $361K, Federal $177K).

IDAHO

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STATE DEMOGRAPHICS

Population: 1,099,000
Size: 83,574
Proportion rural: 12.6%
Population per sq. mile: 13.3
Median household income: $27,784
Percent below poverty: 15.0%
Percent on public assistance: 3.2%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 535,604
Number of LECs: 16 (regulated)
BOC: US West
Market share of BOC: 75.5%
Penetration Rate: 94.8%
LEC competition permitted: prohibited (residential)

OPASTCO STUDY

Subscribers per sq. mile: 0.7
Difference in non-BOC loop costs: 87.1%
Monthly revenues per customer: $14.51
Revenues if supports eliminated: $37.37
Percent who would disconnect: 44.70%

TELEPHONE SERVICE TECHNOLOGY

Copper: Yes   **Hybrid Fiber:** No
Fiber: Yes   **Microwave:** Yes
Percent local loop digital: 98.91%
Other Technology: 95% digital switches

ADVANCED TELECOMMUNICATIONS

Cable households: 54.0%
Cable in schools: 63.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $11.61
LEC residential rates: $9.40 to $17.20

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) with approved rules, fund in place
Targeted Groups: Rural/high cost (not states but implicit)
Definition of basic service: None

STATE UNIVERSAL SERVICE FUND: Yes

Fund Administrator: Independent 3rd party
Contributors: LECs, BOC, IXCs
Basis for contribution: Surcharge on all local access lines, and each intrastate toll minute
Types of subsidies: Bulk check to carrier
Who draws from fund: LECs are eligible if 1) LEC rate for 1-party single line is in excess of 125% of weighted statewide average and 2) average charge per minute for MTS/WTS access service is in excess of 100% of statewide average. 7 LECs currently draw from fund.
Is subsidy portable: No

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: Yes Link Up: Yes High Cost: Yes

PENDING ACTIONS: The IPUC has no pending actions regarding US, but a task force is looking at Idaho's telecommunications law. They hope to get a change in lifeline fund requirements and come up with a different eligibility mechanism. Currently there is no need to define basic service, but it may be an issue in the future. US may be reconsidered if local competition occurs. Currently there is a monopoly. US West rates are under review. US West rates may go up $1 per year with improvements in service quality. US West prefers residential rates go up and business rates go down. Under the current alternative regulation plan settlement proposal, residential rates will go up but business rates won't go down.

COMMENTS: Idaho has a good mechanism now and the USF insures an affordable rate for most, but not all. They still have some pockets with very low penetration. Also, local call doesn't give enough service, extended area service is the challenge.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: No cable providers are included under the current law, but they are on task force looking at change in law.

Programs to access advanced information services: There is so much private activity that they aren't sure they need to get involved. The Commission has insured all customers are served by one-party, touch tone, electronic switches (nearly all digital) and nearly all interoffice routes are digital.

Programs for electronic access to public/government records: Some departments have WWW page, but not all. The Information Technology Division of the Department of Administration manages and coordinates all Internet access for Idaho state government through a contractual agreement with NorthWestNet, for Domain. The Division also maintains the state's WWW presence. The PUC has a homepage with downloadable versions of their Rules available as well as biographies of the Commissioners and various meeting agendas and minutes. A task force (InfoTech 96) is looking at linking state offices on the Internet.

Public/private partnerships: It is difficult to achieve such partnerships under current law.

1995 NTIA/TIIAP GRANTS

Lewis-Clark State College - Institute for Community Development, is developing a regional network of community-based networks that will make access to advanced information services affordable. Twelve Idaho communities and over 25 partners are participating in this project to identify specific information needs in the areas of adult education, K-12 education, and medical and other services. (Total $486K, Federal $225K)

Southern Idaho Medical Information Network, a Community Health Information Network (CHIN) called SIMIN will provide integrated clinical information systems to the health care providers in the area, enabling them to share patient information and "best practice" approaches to patient care. (Total $6,796K, Federal $1,699K)

ILLINOIS

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STATE DEMOGRAPHICS

Population: 11,697,000
Size: 57,918
Proportion rural: 15.4%
Population per sq. mile: 210.4
Median household income: $31,707
Percent below poverty: 15.3%
Percent on public assistance: 7.9%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 6,743,917
Number of LECs: 56
BOC: Ameritech
Market share of BOC: 82.8%
Penetration Rate: 93.5%
LEC competition permitted: 1988

OPASTCO STUDY

Subscribers per sq. mile: 9.9
Difference in non-BOC loop costs: 62.1%
Monthly revenues per customer:
Revenues if supports eliminated:
Percent who would disconnect:

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   **Hybrid Fiber:** No
Fiber : Yes   **Microwave:** No
Percent local loop digital: 95.26%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 57.0%
Cable in schools: 64.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $11.20
LEC residential rates: $5.40 to $28.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) with approved rules,
fund in place (IL has two funds)
Targeted Groups: Low income/economically disadvantaged customers (EDF); Rural/high cost areas (HCF)
Definition of basic service: None

STATE UNIVERSAL SERVICE FUND: Yes

Fund Administrator: (EDF) Non-profit organization; (HCF) LEC Association
Contributors: (EDF) Customers voluntary contributions; (HCF) IXC, primary toll carriers
Basis for contribution: (EDF) Voluntary; (HCF) Intrastate minutes of use
Types of subsidies: (EDF) Waiver of $10 installation charge; (HCF) Subsidy to carrier based on cost above a
sliding scale percentage above statewide average costs
Who draws from fund: (EDF) Goes to carrier based on the number of eligible public assistance customers
requesting; (HCF) Small LEC, based on average cost per access line versus the statewide average
Is subsidy portable: (ED) yes; (HCF) no

FEDERAL UNIVERSAL SERVICE FUNDS: **Lifeline:** No   **Link Up:** Yes   **High Cost:** Yes

PENDING ACTIONS: Staff is filing proposals for US and proposed rules. They are to be done by April 1996. Basic service will be defined as part of staff proposal. They are not sure if the USF will be directed at high cost and/or low income. To date they have been more focused on high cost, but have targeted low income. Subscribership rates are declining in some areas of the state. They have adopted price cap regulations so residential rates will be frozen for 5 years. Rates for smaller LECs may go up with deaveraging.

COMMENTS: Illinois is committed to keeping rates at an acceptable level in the future. The legislature is reluctant to subsidize low income, even though subscription rates are declining in some low income areas. As they continue to deaverage cost, new companies will have to pay to compensate those who built the infrastructure. LECs don't participate in the Federal Lifeline program because the Commission can't require the LECs to match funds.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: The statewide telecommunications "Illinois Video Network"(IVN) presently provides interactive 384kbs video transmission to 36 sites throughout the state, and it should more than double in size in the next two years. MCI is involved in a two year trial using cable to deliver telephone service.

Programs to access advanced information services: As part of staff proposal they might look at advanced information services and requiring existing lines be modem capable lines (14.4 baud). The Illinois State Board of Education (ISBE) is currently expanding their 800 number toll-free program for K-12 school Internet connectivity and planning to eventually supply each school with a high speed connection.

Programs for electronic access to public/government records: There is some access, but not on a statewide basis. They will be expanding this is future.

Public/private partnerships: The National Center for Supercomputing Applications (NCSA) at the University of Illinois at Champaign-Urbana developed Mosaic, a software application, which in its ability to graphically navigate the WWW, has nourished the international explosion in Internet use. Illinois stresses high technology companies in its economic development activities and over 1,000 information technology companies are now located within a 150 mile radius of Chicago, the "Silicon Prairie."

1995 NTIA/TIIAP GRANTS

West Central Illinois Educational Telecommunications Corp. CONVOCOM is upgrading and extending an existing microwave infrastructure from analog to digital, the project will provide industries, non-profit organizations, government offices, and private individuals in Quincy, IL, the opportunity to partake in educational training and face-to-face meetings at a multitude of teleconferencing destination sites throughout Illinois and the rest of the country (Total $486K, Federal $225K).

Governors State University - Center for Extended Learning & Communications. The Learning in Community On-line Network (LINCOLN) will serve underserved rural counties and suburban areas south of Chicago. The project will use the Internet, local information access, audio conferencing, and video conferencing to support citizens' efforts to improve their communities (Total $801K, Federal $388K).

INDIANA

Contact: Sandy Ibaugh
Asst. Chief of Engineering Division
Indiana Utility Regulatory Commission
Indiana Government Center South
302 W Washington St., Suite E 306
Indianapolis, Indiana 46204
(317) 232-2523   Fax:(317) 232-6758

STATE DEMOGRAPHICS

Population: 5,713,000
Size: 36,420
Proportion rural: 35.1%
Population per sq. mile: 159.3
Median household income: $28,663
Percent below poverty: 11.7%
Percent on public assistance: 5.0%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 2,910,142
Number of LECs: 43
BOC: Ameritech
Market share of BOC: 61.7%
Penetration Rate: 92.9%
LEC competition permitted: no regulatory bar

OPASTCO STUDY

Subscribers per sq. mile: 12.9
Difference in non-BOC loop costs: 30.0%
Monthly revenues per customer: $16.19
Revenues if supports eliminated: $24.75
Percent who would disconnect: 12.90%

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   Hybrid Fiber: No
Fiber : Yes   Microwave: No
Percent local loop digital: 99.46%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 59.0%
Cable in schools: 63.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $13.50
LEC residential rates: $3.00 to $25.00

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: Mandated Universal Service (US) with approved rules, fund in place
Targeted Groups: Rural/high cost
Definition of basic service: None

STATE UNIVERSAL SERVICE FUND: Yes

Fund Administrator: BOC
Contributors: LECs, BOC, wireless, IXCs
Basis for contribution: Intrastate carrier common line access minutes - originating & terminating
Types of subsidies: Rate subsidy, Direct infrastructure reimbursement, Opportunity Indiana waives hook-up
Who draws from fund: LECs eligible if intrastate NTS costs are above the statewide average;
14 LECs draw from fund.
Is subsidy portable: No

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: No Link Up: Yes High Cost: Yes

PENDING ACTIONS: They are in the middle of a local exchange workshop looking at local competition --due to finish by 1/15/96. Currently, they have a high cost fund, but some want revised US program to target low income. Target groups and definition of basic service will be discussed in workshop. Contributors to fund will include all telecommunication companies. Ameritech administers current USF but this role will have to go to 3rd party in revised program. There are no pending rate cases. Last year they did a review of rates, and Ameritech phased down end user charges and touch tone charges. They may need to do some rate rebalancing with smaller LECs.

COMMENTS: From the staffs' analysis, the penetration rate (94%) looks good and they know areas where they need to improve. It is hard to predict where they'll be since they're in a state of change.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: They don't regulate cable and cable companies don't have the infrastructure to provide telephone service at this time. So far, no cable companies have applied for certification. Indiana is in the process of building a business case for statewide video conferencing. They plan to implement 5 to 8 video conference sites around the state.

Programs to access advanced information services: They are not sure if these will be included as part of US. Indiana Higher Education Telecommunication System (IHETS) is a state-funded consortium of all 39 public and private universities and colleges (77 campus sites) for the sharing of voice, video and data networks. IHETS manges INDnet (Indiana's Internet backbone), Indiana Partnership for Statewide Education (collaborative development and delivery of distance learning) and ACCESS Indiana (state-led partnership to expand telecommunications infrastructure and assure information access for all citizens). Indiana has a Rural Datafication Project championing Internet connectivity for rural communities.

Programs for electronic access to public/government records: Through the "Access Indiana" program Ameritech will provide access to government documents. Indiana is setting up Internet access for government agencies and community networks. The Legislature has a unique program providing portable computers and a wireless LAN for members of the Indiana General Assembly to help cut the cost of operations and improve Legislative and constituent services.

Public/private partnerships: Ameritech and the IURC came to an agreement with Ameritech's referred to as "Opportunity Indiana." The agreement calls for over $130 mil. in infrastructure deployment, a major grant program for distance learning and a moratorium on local measured service. Through "Opportunity Indiana" Ameritech will spend $5M/year to help school, library and government agencies. They will identify needs, upgrade infrastructure, and provide grant money. Also see ACCESS Indiana above. Indiana is considering outsourcing for a majority of its state government data processing needs.

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None.

IOWA

Contact: Sandra Makeeff, Supervisor of Telephone Section
Bureau of Rates & Safety Evaluation
Iowa Utilities Board
Lucas State Office Building   5th Floor
Des Moines, Iowa 50319
(515) 281-4034   Fax: (515) 281-5329

STATE DEMOGRAPHICS

Population: 2,814,000
Size: 56,276
Proportion rural: 39.4%
Population per sq. mile: 50.4
Median household income: $28,880
Percent below poverty: 11.3%
Percent on public assistance: 5.0%

TELEPHONE SERVICE DEMOGRAPHICS

Number of lines: 1,415,328
Number of LECs: 160
BOC: US West
Market share of BOC: 65.4%
Penetration Rate: 96.3%
LEC competition permitted: 5/95 (never prohibited)

OPASTCO STUDY

Subscribers per sq. mile: 8.5
Difference in non-BOC loop costs: 85.1%
Monthly revenues per customer: $13.92
Revenues if supports eliminated: $24.40
Percent who would disconnect: 12.90%

TELEPHONE SERVICE TECHNOLOGY

Copper : Yes   Hybrid Fiber: No
Fiber : Yes   Microwave: No
Percent local loop digital: 92.3%
Other Technology:

ADVANCED TELECOMMUNICATIONS

Cable households: 59.0%
Cable in schools: 73.0%

TELEPHONE SERVICE RATES

BOC residential rate (s): $11.05-13.05
LEC residential rates: $2.00 to $24.78

UNIVERSAL TELEPHONE SERVICE PROGRAMS

Status of State Universal Service Program: No statute, regulations, or commission orders mandating Universal Service (US)
Targeted Groups: None
Definition of basic service: None

STATE UNIVERSAL SERVICE FUND: No

Fund Administrator:
Contributors:
Basis for contribution:
Types of subsidies:
Who draws from fund:
Is subsidy portable:

FEDERAL UNIVERSAL SERVICE FUNDS: Lifeline: No   Link Up: Yes   High Cost: Yes

PENDING ACTIONS: House File 518 has directed the Utilities Board to look at universal service but it did not mandate US. They have had a workshop and currently have a rule making docket. They are looking at US as part of local competition. If they establish a fund, they would develop definitions for basic service and consider target groups, but they're not sure they need a USF. A USF would probably be targeted to both high cost and low income groups. US West recently filed a rate rebalancing case. US West wants to increase residential rates by $2 and lower access charges and toll rates. Iowa just enacted legislation that allowed companies to go under price cap.

COMMENTS: Iowa is looking at necessity of a USF as competition develops. They are not sure of need one now, but increased competition may create the need.

ADVANCED TELECOMMUNICATION SERVICES

Programs to access video/cable services: No cable providers have applied for certification.

Programs to access advanced information services: The Iowa Communication Network (ICN) provides a two-way interactive broadband network for long distance learning and access to the Internet to all schools and each county seat. Iowa has used $114.5M in bond initiatives (plus a $4M U.S. DOE grant and other allocations now totaling $180M) to install 2800 miles of fiber optic backbone throughout all 99 counties to 126 end points. Currently, all citizens are within 12 miles of a video classroom and next year they plan on connecting 317 high schools followed by some 500 municipal libraries, various teaching hospitals and public television stations. The state expects to save $11M per year in transmission costs when it moves its government data traffic to the fiber network.

Programs for electronic access to public/government records: A state network hooks county and state agencies but is not accessible to the public. There is a limited state government WWW presence hosted by the Iowa Public Telecomputing Network (IPTN), a regional Free-Net.

Public/private partnerships:

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Harlan Municipal Utilities. Through this project citizens of rural Shelby County, Iowa, will have access to an advanced communications network. Fifteen sites throughout the county will be linked to provide a variety of services. City, county, school, and library information will be available to people at computers in the public library (Total $460K, Federal $200K).

Youth & Shelter Services, Inc. The Rural Home Youth Communications Project will use electronic telecommunications technology -- videophones, computers and Internet access -- to connect therapists to their clients, no matter how far apart they are physically during their sessions. Five service centers will have video-phone systems connected to the main center where the therapists will be located (Total $379K, Federal $189K).

Luther College will construct a fully interactive video classroom, enabling its nursing students and patients living in rural and economically depressed Decorah County to gain access to the training and expertise available at the Mayo Clinic (Total $225K, Federal $121K).

MIT Research Program on Communications Policy   http://farnsworth.mit.edu/
    The Media Lab at MIT   http://www.media.mit.edu/
Morino Institute   http://www.morino.org/
National Center for Supercomputing Applications(NCSA/Mosaic) http://www.ncsa.uiuc.edu/
National Computer Security Association (NCSA)   http://www.ncsa.com/
The National Distance Learning Center   http://www.occ.uky.edu/
National Information Infrastructure Testbed (NIIT)   http://www.niit.org/
National Public Telecomputing Network (NPTN)   http://www.nptn.org/
Pacific Telecommunications Council (PTC)   http://www.ptc.org/
Project Vote Smart   http://www.vot-smart.org/
    Election '96 Homepage   http://dodo.crown.net/~mpg/election/96.html
    Interactive Democracy   http://www.cgx.com/id.html
    PoliticsUSA   http://PoliticsUSA.com/
Progress and Freedom Foundation (PFF)   http://www.pff.org/
The Rand Corporation   http://www.rand.org/
Rural Consumers Coalition for the Advancement of Telecom http://policy.net/rural/
Smart Valley   http://www.svi.org/
The Society for Electronic Access (SEA)   http://www.sea.org/
Taxpayers Assets Project (TAP) & Consumer Project on Technology (CPT)   http://www.essential.org/tap/
Tech Corps (K-12 technology volunteers)   http://www.ustc.org/
Telecommuting Advisory Council (TAC)   http://www.telecommute.org/
Town Hall   http://www.townhall.com/
U.S. Chamber of Commerce   http://www.uschamber.org/
Voters Telecommunications Watch (VTW)   http://www.vtw.org/
World Future Society (WFS)   http://www.tmn.com/wfs/wfshome.htm

Publishers & Publications :

General Periodical Access:
CIC Electronic Journals Collection   http://ejournals.cic.net/
CICNet E-serials Archive   gopher://gopher.cic.net:2000/11/e-serials/archive/
Commercial News Services on the Internet   http://www.jou.ufl.edu/commres/webjou.htm
Computer and Communications Media Links   http://www.cmpcmm.com/cc/media.html
Electronic Newsstand Homepage   http://www.enews.com/
E-mail-zines List (Todd Kuipers)   http://www.merak.com/~tkuipers/elists/elists.htm
NewsLink (Newspapers, Magazines, Broadcast)   http://www.newslink.org/menu.html
Newspaper Association of America   http://www.infi.net/naa/
Newspaper Sources Accessible on the Internet   http://www.mediainfo.com/edpub/e-papers.links.html

Specific Publishers & Publications:
Advertising Age   http://www.adage.com/
Angus TeleManagement Group (Telecom Update)   http://www.angustel.ca/
AT&T Technology Magazine   http://www.att.com/att-technology/
BRP Publications (telecom newsletters & reports)   http://brpinc.com/index.html
    Multimedia Publishing Group   http://brpinc.com/data.html
    Telecommunications Group   http://brpinc.com/telecom.html
The BYTE Site   http://www.byte.com/
Cable Regulation Digest (archive)   gopher://gopher.vortex.com:70/11/tv-film-video/cable-reg
Campaign & Elections Magazine   http://www.infi.net/camelect/
CIO Magazine (+ WebMaster)   http://www.cio.com/CIO/ciomaghome.html
CMP's TechWeb (Communications Week, EE Times,   http://techweb.cmp.com/
    Information Week, Interactive Age, NetGuide, Network Computing)
CNN Interactive   http://www.cnn.com/
Communications Industries Report (CIR)   http://www.usa.net/icia/cir.htm
Congressional Quarterly (CQ)   gopher://gopher.cqalert.com/

Datamation	http://www.datamation.com/
Discount Long Distance Digest (Vantek Communications)	http://www.webcom.com/~longdist/
The Economist	http://www.economist.com/
d.Comm (monthly networking magazine)	http://www.d-comm.com/
Educom (Edupage +)	http://www.educom.edu/
Environmental News Network (ENN)	http://www.enn.com/
E-Tech (Photonics Spectra/Optical Society of America)	http://www.osa.org:80/etech/
Federal Communications Law Journal	http://www.law.indiana.edu/fclj/
Federal News Service (FNS)	http://www.fednews.com/
Flatiron Publishing (Computer Telephony Magazines & Books)	http://www.computertelephony.com/
George ("Not just Politics as usual")	http://www.georgemag.com/
Government Technology	http://www.GOVTECH.net/
Institute for Electrical and Electronic Engineers (IEEE) Publications	http://www.ieee.org/pubs/pubs.html
IEEE IEE/INSPEC	http://www.iee.org.uk/
Internaut	http://www.zilker.net/users/internaut/index.html
Jupiter Communications (consumer online & interactive tech.)	http://www.jup.com/
Law Journal Extra!	http://www.ljx.com/
Long Distance Digest	http://www.wiltel.com/ldd/ldd.html
Mecklermedia's iWorld (Internet World, Web Developer/Week)	http://www.mecklerweb.com/
Mercury Center (San Jose Mercury News)	http://www.sjmercury.com/
Multimedia and Entertainment Law Online News	http://www.woof.com/melon/
The Network Observer (TNO)	http://communication.ucsd.edu/pagre/tno.html
Network World Fusion	http://www.nwfusion.com/
Online Inc./Pemberton Press(Online, Database, CD-ROM Professional, MM Schools)	gopher://online.lib.uic.edu/
Online User	http://www.onlineinc.com/online/
PC Graphics & Video	http://www.advanstar.com/pcgv/
Phillips Business Information, Inc. (w. Internet Week)	http://www.phillips.com:3200/
The Red Herring	http://www.herring.com/
Reuters Online (on Yahoo!)	http://www.yahoo.com/headlines/current/business/
Technological Horizons in Education (T.H.E.) Journal	http://www.thejournal.com/
Technology Review (MIT)	http://web.mit.edu/afs/athena/org/t/techreview/www/tr.html
Telecom Digest (USENET comp.dcom.telecom archive)	http://www.wiltel.com/telecom/
The Telecomm Publishing Group (w. Telecom AM, lingo, links)	http://guess.worldweb.net/tpg/
Telecommunications Magazine	http://www.telecoms-mag.com/
Telecomreg (telecomreg mailing list archive)	http://www.wiltel.com/telecomr/
Time Warner's Pathfinder (Entertainment Weekly, Fortune, Kidstuff, Life, Money, People, Time, Sports Access)	http://pathfinder.com/
Upside (w. good resource links)	http://www.upside.com/
USA Today	http://www.usatoday.com/
U.S. News Online	http://www2.USNews.com/usnews/
The Utne Reader	http://www.utne.com/
Voice of America	gopher://gopher.voa.gov:70/11/
The Wall Street Journal (Money & Investing Update)	http://update.wsj.com/
Washington Telecom Newswire	http://www.com/wtn/
Wired - HotFlash/HotWired	http://www.hotwired.com/
Ziff-Davis Publishing/ZDNet (Computer Gaming/Life/Shopper, Inter@ctive, Internet Life, PC Computing/Magazine/Week, Mac User/Week, Windows)	http://www.zdnet.com/

Individual Netizens' Home Pages and Web Sites:

Isaac Asimov	http://www.clark.net/pub/edseiler/WWW/asimov_home_page.html
John Perry Barlow	http://www.eff.org/homes/barlow.html
Stewart Brand	http://www.well.com/user/sbb/
Noam Chomsky Archive	http://www.lbbs.org/archive/index.htm
Esther Dyson	http://www.eff.org/homes/dyson.html

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Bill Gates (unofficial)	http://www.zpub.com/un/bill/
George Gilder (Telecosm)	http://www.discovery.org/gilder/ggindex.htm
Peter W. Huber	http://khht.com/huber/home.html
Mitch Kapor	http://www.kei.com/homepages/mkapor/
Marshal McLuhan	http://www.mcluhan.ca/mcluhan/, http://www.vyne.com/McLuhan/
Marvin Minsky	http://www.ai.mit.edu/people/minsky/minsky.html
Nicholas Negroponte	http://nicholas.www.media.mit.edu/people/nicholas/
Frank Ogden (Dr. Tomorrow)	http://www.drtomorrow.com/drtomorrow/index2.html#index
Howard Rheingold	http://www.well.com/www/hlr/
Bruce Sterling	http://riceinfo.rice.edu/projects/RDA/VirtualCity/Sterling/index.html

Subject Oriented Directories:

Telecommunications Related Directories & Resources:

Communications and Telecom WWW Virtual Library	http://www.analysys.co.uk/commslib.htm
Computer and Communications Entry Page	http://www.cmpcmm.com/cc/
NTIA - Other Telecommunications and Information Sources	http://www.ntia.doc.gov/infsites.html
Operation Cyber-Prometheus Telecommunications Resources	http://www.odyssee.net/~hex/index.html
Telecom Information Clearinghouse (TPG - Lingo,Links,Tools)	http://guess.worldweb.net:80/tpg/pages/guide.htm
Telecom Information Resources (U of MI, extensive)	http://www.spp.umich.edu/telecom/telecom-info.html
Telecommunications Resource Directory	http://www.southwire.com/wgta/teledir/teledir.htm
Telecommunications Standards (Ascom)	http://www.tech.ascom.ch/StandardizationService
Telecommunications WWW Sites (ITU)	http://www.itu.ch/special/web-sites.html
Telstra (Tele)communications Resources	http://www.telstra.com.au/info/communications.html
The TelComLaw Web Page	http://www.his.com:80/~rjk/
EPIC Online Guide to Privacy Resources	http://epic.org/privacy/privacy_resources_faq.html
Dan Kegel's ISDN Page	http://alumni.caltech.edu/~dank/isdn/
North American ISDN Users' Forum (NIUF at NIST)	http://www.niuf.nist.gov/misc/niuf.html
Mobile Satellite Telecommunications	http://www.wp.com/mcintosh_page_o_stuff/tcomm.html
Electronic Commerce Resources (CMU)	http://www.ini.cmu.edu/NETBILL/commerce.html
The Electronic Commerce Resource Center (ECRC)	http://www.ecrc.ctc.com/
Rural Clearinghouse for Lifelong Education and Development	http://www.ksu.edu/~rcled/
Telemedicine Resources and Services	http://naftalab.bus.utexas.edu/nafta-7/tmpage.html
Telemedicine/Rural Medicine Resources	http://www.arcade.uiowa.edu/hardin-www/telemed.html
Telecommuting and Telework Info Page	http://grove.ufl.edu/~pflewis/commute.html
The Telecommunications Glossary (LDDS WorldCom)	http://www.wiltel.com/glossary/glossary.html

General Subject Directories:

Clearinghouse for Subject Resource Guides	http://www.lib.umich.edu/chhome.html
Galaxy	http://galaxy.einet.net/
IGC Issues Index Page	http://www.igc.apc.org/igc/issues.html
Library of Congress (LOC) Global Electronic Library	http://lcweb.loc.gov/global/globalhp.html
McKinley Group's Magellan	http://www.mckinley.com/
Rice University Subject Guides	http://riceinfo.rice.edu/RiceInfo/Subject.html
Scholarly Societies by Subject	http://www.lib.uwaterloo.ca/society/subjects_soc.html
The Whole Internet Catalog	http:www.gnn.com/wic/newrescat.toc.html
The World Wide Web Virtual Library	http://www.w3.org/hypertext/DataSources/bySubject/Overview.html
Yahoo!	http://www.yahoo.com/
Yanoff's Special Internet Connections	http://www.w3.org/hypertext/DataSources/Yanoff.html
The YellowPages.com	http://theyellowpages.com/default.htm

Geographic Oriented Directories:

Geographic Nameserver (with Zip Codes)	http://www.mit.edu:8001/geo
City.Net (worldwide cities on the web)	http://www.city.net/
USA CityLink	http://banzai.neosoft.com/citylink/default.html
WWW Servers by Geography	http://info.cern.ch/hypertext/DataSources/WWW/Servers.html

Travel Resources:

Airlines 800 Phone Numbers & Links (Period.Com)	http://www.period.com/airlines/airlines.htm
Business Travel (biztravel.com)	http://www.biztravel.com/guide/
Business Travel Library (Craighead Publications)	http://www.craighead.com/craighead/
CDC Medical Reference for International Travel	http://www.cdc.gov/travel/travel.html
Date & Time Gateway (place/time zone reference)	http://www.bsdi.com/date/date
The Eco-Source (ecotourism information & resources)	http://www.podi.com/ecosource/
Universal Currency Converter (Xenon Labs)	http://www.xe.net/currency/
U.S. State Department Travel Advisories	http://www.stolaf.edu/network/travel-advisories.html
U.S. Travel & Tourism Information Network (USTTIN)	http://www.usttin.org/
Virtual Tourist (map-based interface to City.Net)	http://wings.buffalo.edu/world/vt2/
Weather & Ski Information (NBC News Intellicast)	http://www.intellicast.com/
Worldwide Weather (CNN)	http://www.cnn.com/WEATHER/index.html

Internet Search Engines:

All-in-One Search Page	http://www.albany.net/allinone/
CUI's W3 Catalog	http://cuiwww.unige.ch/w3catalog/
DejaNews Research Service	http://www.dejanews.com/forms/dnq.html
Excite (Web, newsgroups)	http://www.excite.com/
IBM infoMarket Service	http://www.infomkt.ibm.com/
Infoseek Guide (Web, newsgroups, FAQs, topics)	http://guide.infoseek.com/
Inktomi	http://inktomi.berkeley.edu/
Lycos	http://lycos.cs.cmu.edu/
The MetaCrawler (multi-threaded Web search)	http://metacrawler.cs.washington.edu:8080/home.html
New Rider's Official WWW Yellow Pages	http://www.mcp.com/newriders/wwwyp/index.html
Open Text Index - Simple Search	http://www.opentext.com:8080/omw/f-omw.html
SavvySearch (parallel Internet query engine)	http://www.cs.colostate.edu/~dreiling/smartform.html
Web Crawler	http://www.webcrawler.com/WebCrawler/WebQuery.html
World Wide Web Worm	http://www.cs.colorado.edu/home/mcbryan/WWWW.html

Online Database/Service Vendors:

Consumer Online Services:

America Online (AOL)	http://www.aol.com/
CompuServe	http://www.compuserve.com/
eWorld (Apple)	http://www.eworld.com/
GEnie Online Service	http://www.genie.com/
MCI/NewsCorp (formerly Delphi)	http://www.delphi.com/
Microsoft Network (MSN)	http://www.msn.com/
Prodigy	http://www.prodigy.com/
Online Services Pricing Information	http://www.accessone.com/~shwaap/onlines.html
The List (Internet Service Providers - ISPs)	http://www.thelist.com/

Commercial Database Publishers and Providers:

American Business Information	http://www.abii.com/
AT&T Business Network	http://www.ichange.com/partners/bnet.html
BIOSIS (Biological Abstracts)	http://www.biosis.org/htmls/common/home.html
BRB Publications (Public Records References)	http://www.yab.com/~prrl/main1.html
CAB International (intergovernmental scientific publisher)	http://www.cabi.org/
CARL Corporation	http://www.carl.org/
Uncover (search >17,000 periodicals' TOCs)	http://www.carl.org/uncover/unchome.html
CDB Infotek (public records)	http://www.cdb.com/
Chemical Abstracts Service (CAS)	http://info.cas.org/
Copyright Clearance Center (CCC) Online	http://www.openmarket.com/copyright/
Derwent Information Ltd. (scientific & patent information)	http://www.derwent.co.uk/

Dow Jones DowVision	http://dowvision.wais.net/
Dun & Bradstreet Information Services	http://www.dbisna.com/
Educational Resources Information Center (ERIC)	http://www.aspensys.com/eric2/welcome.html
Engineering Information Inc. (Ei Village)	http://www.ei.org/
Find/SVP	http://www.findsvp.com/
Gale Research GaleNet	http://galenet.gale.com/
Information Access Company (IAC)	http://www.iacnet.com/Welcome.html
IEEE IEE/INSPEC	http://www.iee.org.uk/
Institute for Scientific Information (ISI)	http://www.isinet.com/
Knight-Ridder Information (DIALOG, DataStar)	http://www.rs.ch/www/rs/index.htm
Knowledge Express Data Systems (KEDS)	http://www.keds.com/
LEXIS-NEXIS Communication Center	http://www.lexis-nexis.com/
Online Computer Library Center (OCLC)	http://www.oclc.org/
Public Affairs Information Service (PAIS)	http://www1b.inter.net/pais/
Questel/Orbit (France Telecom Group)	http://www.questel.orbit.com/patents/
Reed Reference Publishing (Bowker, Saur, Marquis, Martindale-Hubbell)	http://www.reedref.com/
SIRSI Corporation (VIZION, WebCat, Unicorn)	http://www.sirsi.com/
UMI (University Microfilms International)	http://www.umi.com/
West Publishing/Westlaw	http://www.westpub.com/
H.W. Wilson	http://www.hwwilson.com/

Miscellaneous Internet Resources:

Internet Resources List	http://www.eit.com/web/netservices.html
The Internet Public Library (IPL)	http://ipl.sils.umich.edu/index.html
The Information SuperLibrary (Viacom)	http://www.mcp.com/
Listserv Discussion Group Index	http://www.tile.net/tile/listserv/index.html
USENET FAQs Index	http://www.cis.ohio-state.edu/hypertext/faq/usenet/FAQ-List.html
USENET Newsgroups Index	http://www.telstra.com.au/services/news/
The Whole Earth Lectronic Link (WELL - 200 conferences)	http://www.well.com/
BABEL - Abbreviation & Acronym Glossary	http://www.access.digex.net/~ikind/babel95c.html
The Free On-line Dictionary of Computing	http://wfn-shop.princeton.edu/cgi-bin/foldoc
The Jargon File (Ver. 3.2.0 - 3/95)	http://www.fwi.uva.nl/~mes/jargon/
Engineering & Scientific Unit Converter	http://www.webcom.com/~legacysy/convert2/convert2.html
ArtsEdge (Kennedy Center - arts & education thru technology)	http://artsedge.kennedy-center.org/
Arts Wire (national arts network)	http://www.tmn.com/Artswire/www/awfront.html
Dave's Fun Page (education, hobbies and more)	http://www.tpoint.net/Users/jewels//davesfun.html
Justin's Links from the Underground	http://www.links.net/
The Underground (No More Secrets)	http://www.underground.org/

Statistical and Demographic Resources:

American Demographics/Marketing Tools	http://www.marketingtools.com/
Bureau of the Census (U.S. DOC)	http://www.census.gov/
Demography Resources (International)	http://sosig.ac.uk/Subjects/demog.html
NSF Science Resource Statistics/Studies	http://www.nsf.gov:80/sbe/srs/stats.htm
NSF - Other Statistical Resources	http://www.nsf.gov:80/sbe/srs/other.htm
Population Studies Center (University of Michigan)	http://www.psc.lsa.umich.edu/
WWW Virtual Library - Demography & Population	http://coombs.anu.edu.au/ResFacilities/DemographyPage.html

Miscellaneous Internet Directories:

InterNIC Directory and Databases	http://www.internic.net/
Four11 White Pages (e-mail & WWW) Directory	http://www.four11.com/
AT&T Toll-Free 800 Directory	http://www.tollfree.att.net/dir800/
NYNEX Interactive Yellow Pages (16.5 million U.S. businesses)	http://www.niyp.com/
The All-Internet Shopping Directory	http://www.webcom.com/~tbrown/welcome.html
CommerceNet Directories	http://www.commerce.net:80/directories/directories.html

Open Market's Commercial Sites Index	http://www.directory.net/
Public Companies with Home Pages (>830)	http://networth.galt.com/www/home/info/insider/publicco.htm
Hoover's Online Company Information	http://www.hoovers.com/
Thomas Register of American Manufacturers	http://www.thomasregister.com:8000/
WWW Virtual Law Library	http://www.law.indiana.edu/law/lawindex.html
Professional Association Index (NewMarket Forum)	http://www.newmarket-forum.com/
TitleNet (Inforonics, access Publishers' Print Titles)	gopher://ns1.infor.com:70/1
HYTELNET Library Access (telnet)	http://library.usask.ca/hytelnet/
Public Libraries with Internet Access	http://sjcpl.lib.in.us/homepage/PublicLibraries/PublicLibraryServers.html

Non-Profits and Human Rights Groups:

American Civil Liberties Union (ACLU)	gopher://aclu.org:6601/
The American Immigration Home Page	http://www.bergen.gov/AAST/Projects/Immigration/index.html
Amnesty International Online	http://www.io.org/amnesty/overview.html
Electronic Frontier Foundation (EFF)	http://www.eff.org/
Human Rights Library & Links (University of Minnesota)	http://www.umn.edu/humanrts/
Human Rights Research and Education Centre (University of Ottawa)	http://aix1.uottawa.ca:80/~hrrec/
International Committee of the Red Cross (ICRC)	http://www.icrc.ch/
Meta-Index for Non-Profit Organizations	http://www.duke.edu/~ptavern/Pete.meta-index.html
Parliamentary Human Rights Foundation & Global Democracy Network	http://www.gdn.org/phrf.html
World Liberalism Homepage	http://www.ftech.net/~worldlib/hotspot.htm

Cross-Cultural and Niche Resources:

Aboriginal Resource Links	http://www.io.org/~jgcom/aborl.htm
African American Site List (Scott Hill)	http://sparrow.accs.howard.edu/staff/scott/african.html
LatinoWeb	http://www.catalog.com/favision/latnoweb.htm
NativeWeb (Native American)	http://web.maxwell.syr.edu/nativeweb/
Women's Organizations & Resources (Webwomen!)	http://www.tmn.com/otherstuff/women.html
SeniorNet	http://www.seniornet.org/

Medical Resources:

American Medical Association (AMA)	http://www.ama-assn.org/
Medical Science Links	http://www.ama-assn.org/med_link/med_link.htm
Medical Societies Directory	http://www.ama-assn.org/directry/directry.htm
Biosciences WWW Links (Harvard University)	http://golgi.harvard.edu/biopages/all.html
Centers for Disease Control and Prevention (CDC)	http://www.cdc.gov/cdc.html
Information Network for Public Health Officials (INPHO)	http://www.cdc.gov/inpho/inpho.htm
Center on Information Technology Accommodation (CITA)	http://www.gsa.gov/coca/
Disability Resources on the Internet	http://www.eskimo.com/~jlubin/disabled.html
National Institute on Disability and Rehabilitation Research (NIDRR)	http://www.ed.gov/offices/
The Good Health Web	http://www.social.com/health/index.html
HazDat (ATSDR Hazardous Substance Health Effects DB)	http://Atsdr1.atsdr.cdc.gov:8080/hazdat.html
HEALTHFINDER (Toll-free numbers for health info)	http://www.nysernet.org/bcic/numbers/NHIC-tollfree.html
Health Care Information Resources	http://www-hsl.mcmaster.ca/tomflem/top.html
HealthSeek	http://www.healthseek.com/
Medical Matrix - Internet Clinical Medicine Resources	http://www.kumc.edu:80/mmatrix/
Medical Sites on the Web (Columbia University)	http://www.cpmc.columbia.edu/list.html
Medscape (professional & consumer medical info)	http://www.medscape.com/
Mental Health Net (MHN)	http://www.cmhc.com/
National Institutes of Health (NIH)	http://www.nih.gov/
National Library of Medicine	http://www.nlm.nih.gov/welcome.html
Pharmacy Resources (WWW Virtual Library)	http://www.cpb.uokhsc.edu/pharmacy/pharmint.html
Primary Care Baseline Project	http://www.med.ufl.edu/medinfo/docs/baseline.html
U.S. Food and Drug Administration (FDA)	http://www.fda.gov/
World Health Organization (WHO)	http://www.who.ch/

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Appendix D - Universal Service Position Statements